

THERE IS CLAIMED:

1. A method of allocating packet mode resources in a mobile radio system in which a mobile station can send different types of packet mode resource requests to the network, corresponding to different transfer modes that can be supported by the mobile station, a mobile station being able to use one or the other of request types corresponding to transfer modes that it supports, in accordance with its requirements, in which method, for signaling data transfer in the uplink direction, said signaling being liable to generate an allocation of packet mode resources in the uplink direction for user data transfer, a mobile station uses a type of packet mode resource request corresponding to a transfer mode best suited to the requirements of said user data transfer.
2. A method of allocating packet mode resources in a mobile radio system in which a mobile station can send different types of packet mode resource requests to the network, corresponding to different transfer modes that can be supported by the mobile station, a mobile station being able to use one or the other of request types corresponding to transfer modes that it supports, in accordance with its requirements, in which method, for signaling data transfer, a mobile station uses a type of packet mode resource request corresponding to a transfer mode best suited to the requirements of a user data transfer, including a cause specifying signaling data transfer requirements.
3. The method claimed in claim 1 wherein different transfer modes supported correspond to different bit rates available.
4. The method claimed in claim 3 wherein different bit rates available correspond to different modulation schemes available.
5. The method claimed in claim 1 wherein said different transfer modes include a General Packet Radio Service (GPRS) mode and an Enhanced General Packet Radio Service (EGPRS) mode.
6. The method claimed in claim 1 wherein one transfer mode best suited to the requirements of user data transfer corresponds to a transfer mode authorizing the highest bit rate.
7. The method claimed in claim 1 wherein one transfer mode best suited to the requirements of user data transfer corresponds to the Enhanced General Packet Radio Service (EGPRS) mode.

8. The method claimed in claim 1 wherein said signaling data transfer requirements include requirements for transfer of signaling messages in accordance with a mobility management protocol.
9. The method claimed in claim 8 wherein said signaling messages include a cell update message sent in the event of cell reselection during a current user data transfer.
10. The method claimed in claim 8 wherein said signaling messages include a *paging response message in packet mode* prior to a transfer of user data in the downlink direction.
11. The method claimed in claim 1 wherein said user data transfer includes a transfer of data in accordance with the Transmission Control Protocol (TCP).
12. The method claimed in claim 1 wherein a message used to transmit a type of packet mode resource request that corresponds to a transfer mode best suited to the requirements of a user data transfer is the EGPRS PACKET CHANNEL REQUEST message.
13. The method claimed in claim 12 wherein said EGPRS PACKET CHANNEL REQUEST message includes a cause specifying signaling data transfer requirements.
14. A mobile station including means for implementing a method as claimed in any one of claims 1 to 13.
15. Mobile radio network equipment including means for implementing a method as claimed in any one of claims 1 to 13.
16. A mobile radio system including means for implementing a method as claimed in any one of claims 1 to 13.